



## Location

The 2-acre site is located at the northeast corner of the intersection of Grange Hall and East Patterson Roads in Beavercreek, Ohio.

## Milestones

<b>1954-69</b>	Barrel facility operated
<b>1969</b>	Facility burned down
<b>1985</b>	Chemicals found in residential wells along East Patterson
<b>1986</b>	Water lines extended
<b>1986-00</b>	Residential wells monitored
<b>1992</b>	Site investigation began
<b>1997</b>	Engineering Evaluation/Cost Analysis started
<b>1998</b>	Analysis completed
<b>1998</b>	Community Advisory Group formed
<b>1999</b>	Cleanup plan proposed and approved
<b>2000</b>	Water lines extended to four homes
<b>2000</b>	Design studies began, revealing new contamination
<b>April 2001</b>	Ground Water Investigation begins

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# EPA Finds More Contamination Ground Water Investigation Planned

**Lammers Barrel Factory Site**

**March 2001**



*Workers fuse together a water main along Rockfield Drive.*

In a soil and ground water study conducted in 2000, the U.S. Environmental Protection Agency (EPA) found that Lammers Barrel Factory site contamination is more extensive than previously thought. Deeper soils are affected, the horizontal extent of the contamination is likely greater, and more types of chemicals are present in site soils and underlying ground water.

Given this new information, EPA believes the cleanup method originally selected, Dual Phase Vapor Extraction, will likely not work effectively. Because the contamination is more widespread, it is also likely that the cleanup will exceed EPA's available funding for the project.

EPA and its contractor, the U.S. Army Corps of Engineers, are evaluating alternate cleanup technologies and planning an additional investigation.

## EPA Begins Ground Water Investigation

To better understand the contamination in ground water under the site and in the residential area, EPA plans to do an investigation. The main purpose is to collect additional data that will define the boundaries of the ground water plume, both horizontally and vertically. This important information will

help determine which residential wells may be affected, now or in the future. EPA proposes to sample ground water from up to 10 boreholes and from selected residential wells.

### ***Boreholes***

To define the extent of ground water contamination during this investigation, boreholes will be drilled and ground water samples collected and analyzed. Crews will start the drilling near the site, along East Patterson Road. After collecting ground water samples and analyzing contaminants at a laboratory, scientists will assess the results to determine strategic locations for remaining boreholes. Crews will use this process repeatedly until all boreholes are drilled.

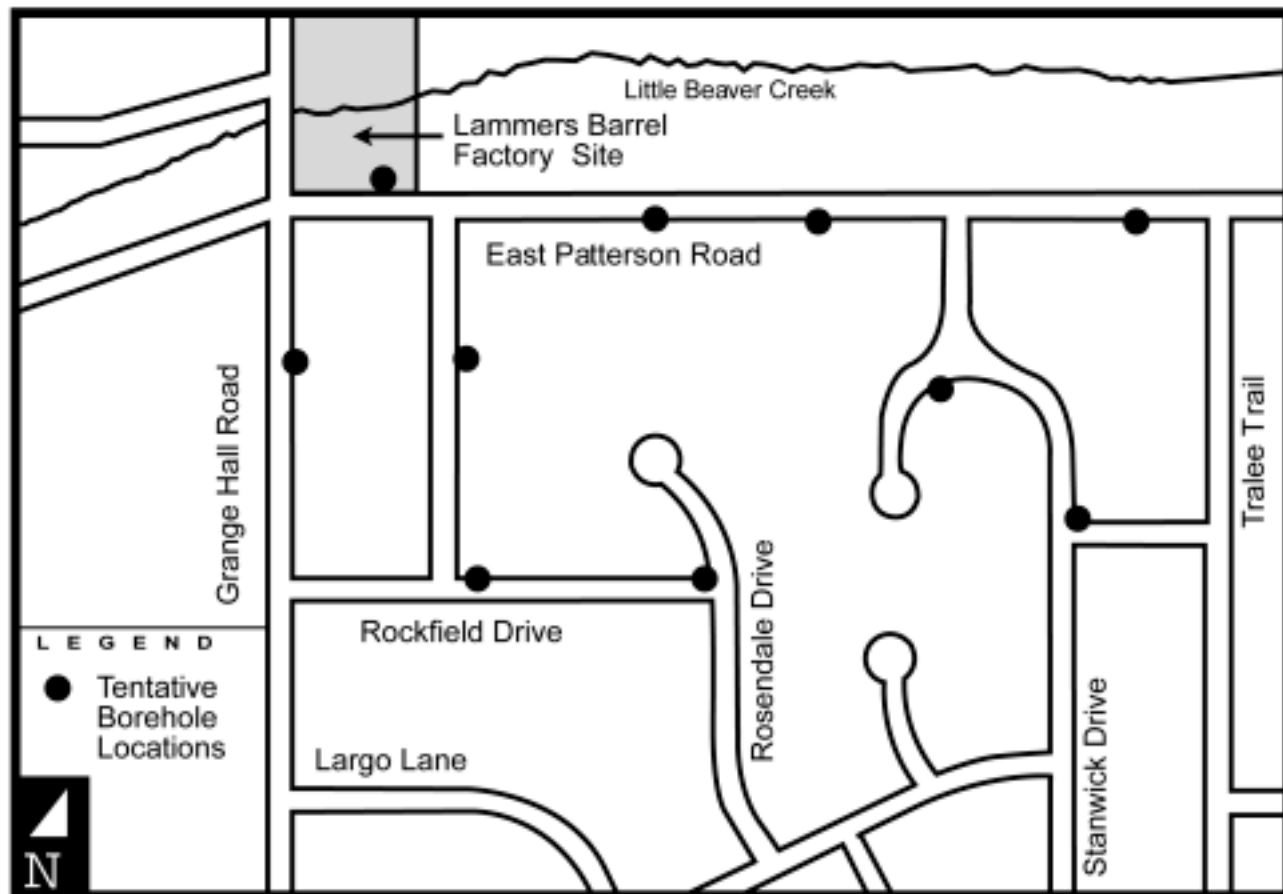
- ✓ Boreholes, 4 inches in diameter, will be drilled in right-of-ways to a depth of about 80 feet (see map for approximate locations). Properties will be restored to original conditions as much as possible.

- ✓ Ground water samples will be collected from three different depths at each borehole.
- ✓ The samples will be analyzed for four groups of chemicals, including volatile organic compounds (chemicals that evaporate quickly, such as solvents), semi-volatile organic compounds (chemicals that evaporate less quickly), polychlorinated biphenyls (PCBs), and metals.
- ✓ Once the sampling has been completed, the borehole will be “abandoned” according to Ohio requirements.

### ***Residential Wells***

Residential wells in areas of suspected ground water contamination also will be sampled. Up to three wells in the vicinity of each borehole will be sampled and analyzed for volatile and semi-volatile

## **Lammers Barrel Factory Site Tentative Borehole Locations**





*Disconnecting the well and installing a water meter was a final step in providing county water to four homes on Rosendale Circle.*

compounds and metals. In addition, EPA will sample wells that have had contaminant detections in the past and are not currently connected to county water.

Residential wells will be selected based on agreement by the home or business owner and proximity to and direction from each borehole. Ideally, each of the three residential wells selected will be located in a triangular pattern around each borehole. If possible, water will be sampled from the household taps or spouts not connected to water softeners or purifiers.

### ***Timing***

Work is expected to start the first week in April and end three weeks later. U.S. Army Corps of Engineers and subcontractor Adrian Brown Consultants, Inc., will do the work under EPA and Ohio EPA oversight.

## **EPA Evaluates Site for Superfund National Priority List**

Due to the likely increase in cleanup costs resulting from more contamination, EPA is evaluating the site for inclusion on EPA's Superfund National Priority List. This is a list of hazardous waste sites in the country that are eligible for comprehensive site investigation and cleanup under the Superfund

program. Sites on the list are eligible for federal cleanup funds if companies responsible for the cleanup cannot be found.

To be placed on the National Priority List, EPA must first assess existing site data according to a scoring system that evaluates the danger the site poses to public health and the environment. If the site scores high enough, EPA will likely propose that it be added to the list. The proposal would be published in the Federal Register and the public would have an opportunity to comment in writing on the scientific merit of the proposal. Once public comments are evaluated, EPA would make a final decision on whether to place the site on the list. The final decision would be posted in the Federal Register. EPA has begun the scoring process for the site. Optimistically EPA could place the site on the National Priority List within a year.

If the Lammers Barrel Factory site is placed on the National Priority List, federal law requires EPA to undertake a number of new activities, including additional site investigations, assessment of risk to human health and the environment, review and selection of a cleanup remedy, and community involvement. Because of previous investigations conducted at this site, EPA expects these activities to proceed quickly. EPA will provide additional information as they occur.

### **Information Repository**

You may review detailed information about the Lammers Barrel Factory site, including the Phase III ground water investigation work plan and addendum summarized in this fact sheet, at the information repository located at:

Beavercreek Community Library  
Reference Desk  
3618 Dayton-Xenia Road  
Beavercreek, Ohio



## Contact Information

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## Help Find Responsible Companies!

Make sure companies responsible for the Lammers site contamination pay their fair share of cleanup costs. Please call EPA if you know:

- Companies that sold or transported chemicals or barrels to the facility at Grange Hall and East Patterson Roads known as Lammers and Kohnen Barrel (or a similar name)
- Employees of those companies who might have information
- Chemicals brought or processed there
- General operations at the plant
- Employees of Lammers and Kohnen Barrel (or a similar name), or its successor companies, at 1880 Radio Road, Dayton, between 1965 and 1976

Call 1-888-640-9025, if no answer, please leave a message. An EPA investigator will call you back.

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